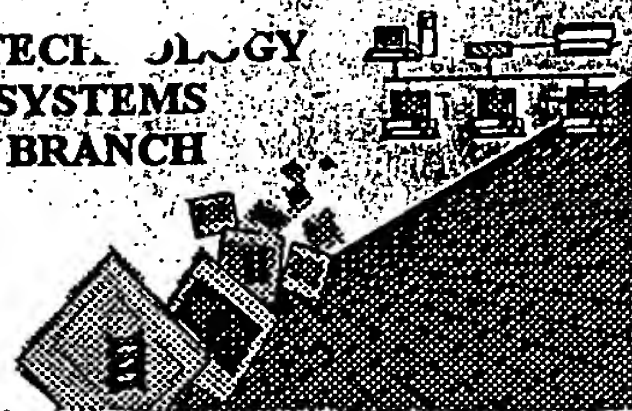


**RAW SEQUENCE LISTING**  
**ERROR REPORT**

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



TECH CENTER 1600/2900

JUL 10 2002

RECEIVED

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/720,383A  
Source: 600  
Date Processed by STIC: 7/3/02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER**  
**VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND  
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

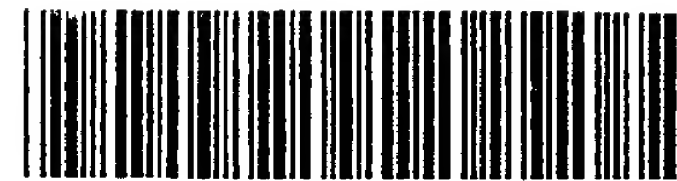
Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
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Revised 01/29/2002



Does Not Comply  
Corrected Diskette Needed

1600

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/720,383A

DATE: 07/03/2002  
TIME: 12:31:45

Errors on  
pp. 1 + 5

Input Set : A:\BB-1170 USPCT Substitute Seq List.txt  
Output Set: N:\CRF3\07032002\I720383A.raw

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TECH CENTER 1600/2900

3 <110> APPLICANT: E. I. du Pont de Nemours and Company  
5 <120> TITLE OF INVENTION: Plant Cellulose Synthases  
7 <130> FILE REFERENCE: BB-1170  
--> 9 <140> CURRENT APPLICATION NUMBER: US/09/720,383A  
--> 10 <141> CURRENT FILING DATE: 2002-05-10  
12 <150> PRIOR APPLICATION NUMBER: 60/092,844  
--> 13 <151> PRIOR FILING DATE: July 14, 1998  
15 <160> NUMBER OF SEQ ID NOS: 29  
17 <170> SOFTWARE: Microsoft Office 97

#### ERRORS SEQUENCES

1821 <210> SEQ ID NO: 19  
1822 <211> LENGTH: 1742  
1823 <212> TYPE: DNA  
1824 <213> ORGANISM: Triticum aestivum  
1826 <220> FEATURE:  
1827 <221> NAME/KEY: unsure  
1828 <222> LOCATION: (9)  
1830 <220> FEATURE:  
1831 <221> NAME/KEY: unsure  
1832 <222> LOCATION: (271)  
1834 <400> SEQUENCE: 19

*wrong nucleic acid designation*

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1836 gtgcagttcc cacaaagggt tgatggtatt gataggaatg atcgatatgc aaacaggaac 120  
1837 actgtctttt ttgatattaa cttgaggggc cttgacggca ttcaaggacc agtttatgtg 180  
1838 ggaactggtt gtgtttttcaa cagaacggct atctatggtt atgagccccc aattaaggcg 240  
--> 1839 aagaagccag gtttcttggc atcattatgt nggggcaaga agaaggcaag caagtcaaag 300  
1840 aaaaggagct cagataagaa aaagtcgaac aagcatgtgg acagtctctg tccagtattc 360  
1841 aatctcgaag acatagagga ggggtgttgaa ggtgctgggt ttgatgatga gaaatcagtt 420  
1842 ctcatgtctc aaatgagcct agagaagaga tttggccagt cagcagcatt tgttgccctc 480  
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## RAW SEQUENCE LISTING

DATE: 07/03/2002

PATENT APPLICATION: US/09/720,383A

TIME: 12:31:45

Input Set : A:\BB-1170 USPCT Substitute Seq List.txt

Output Set: N:\CRF3\07032002\I720383A.raw

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1855 atgttcaagt ggacgacgct tcttatccct ccgacgacca ttttgatcat taacatgggc 1260
1856 ggtgtcggtg ctggtacctc ctacgccatc aacagtgggt accaatcatg ggggccgctc 1320
1857 tttgggaagc tcttctttgc cttctgggtg attgttcact tatacccatt cctcaagggt 1380
1858 cttatgggca ggcaaaaccg cacaccgacg attgtcctcg tctgggctgt cctcctcgtc 1440
1859 tctatcttct ccttgctgtg ggttcgtgtt gatccattca ctaccctgtc cgctggccca 1500
1860 aatatccaaa cctgtggcat caactgctag gaaagtggga gtttgtagag acagaaaata 1560
1861 taacagtgat cgagcgacca cctgtggagc cagagaatat ttatgttggg gttgtgaatt 1620
1862 actacgtttg agaaagtgtg caaaattgag aaaacacatt tgtaaataga tgtaatagac 1680
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1864 aa 1742

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3180 &lt;211&gt; LENGTH: 1081

3181 &lt;212&gt; TYPE: PRT

3182 &lt;213&gt; ORGANISM: Arabidopsis thaliana

3184 &lt;400&gt; SEQUENCE: 29

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3186 1 5 10 15
3188 Ile Asn Ala Asp Glu Asn Ala Arg Ile Arg Ser Val Gln Glu Leu Ser
3189 20 25 30
3191 Gly Gln Thr Cys Gln Ile Cys Arg Asp Glu Ile Glu Leu Thr Val Asp
3192 35 40 45
3194 Gly Glu Pro Phe Val Ala Cys Asn Glu Cys Ala Phe Pro Val Cys Arg
3195 50 55 60
3197 Pro Cys Tyr Glu Tyr Glu Arg Arg Glu Gly Asn Gln Ala Cys Pro Gln
3198 65 70 75 80
3200 Cys Lys Thr Arg Phe Lys Arg Leu Lys Gly Ser Pro Arg Val Glu Gly
3201 85 90 95
3203 Asp Glu Glu Glu Asp Asp Ile Asp Asp Leu Asp Asn Glu Phe Glu Tyr
3204 100 105 110
3206 Gly Asn Asn Gly Ile Gly Phe Asp Gln Val Ser Glu Gly Met Ser Ile
3207 115 120 125
3209 Ser Arg Arg Asn Ser Gly Phe Pro Gln Ser Asp Leu Asp Ser Ala Pro
3210 130 135 140
3212 Pro Gly Ser Gln Ile Pro Leu Leu Thr Tyr Gly Asp Glu Asp Val Glu
3213 145 150 155 160
3215 Ile Ser Ser Asp Arg His Ala Leu Ile Val Pro Pro Ser Leu Gly Gly
3216 165 170 175
3218 His Gly Asn Arg Val His Pro Val Ser Leu Ser Asp Pro Thr Val Ala
3219 180 185 190
3221 Ala His Arg Arg Leu Met Val Pro Gln Lys Asp Leu Ala Val Tyr Gly
3222 195 200 205
3224 Tyr Gly Ser Val Ala Trp Lys Asp Arg Met Glu Glu Trp Lys Arg Lys
3225 210 215 220
3227 Gln Asn Glu Lys Leu Gln Val Val Arg His Glu Gly Asp Pro Asp Phe
3228 225 230 235 240
3230 Glu Asp Gly Asp Asp Ala Asp Phe Pro Met Met Asp Glu Gly Arg Gln
3231 245 250 255
3233 Pro Leu Ser Met Lys Ile Pro Ile Lys Ser Ser Lys Ile Asn Pro Tyr

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## RAW SEQUENCE LISTING

DATE: 07/03/2002

PATENT APPLICATION: US/09/720,383A

TIME: 12:31:46

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Output Set: N:\CRF3\07032002\I720383A.raw

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3240							
3242	Ser	Val	Ile	Cys	Glu	Ile	Trp
3243	305						
3245	Phe	Pro	Lys	Trp	Tyr	Pro	Ile
3246							
3248	Ser	Leu	Arg	Tyr	Glu	Lys	Glu
3249							
3251	Asp	Val	Phe	Val	Ser	Thr	Val
3252							
3254	Thr	Ala	Asn	Thr	Val	Leu	Ser
3255							
3257	Lys	Val	Ala	Cys	Tyr	Val	Ser
3258	385						
3260	Glu	Ala	Leu	Ser	Glu	Thr	Ala
3261							
3263	Cys	Lys	Lys	Tyr	Cys	Ile	Glu
3264							
3266	His	Lys	Met	Asp	Tyr	Leu	Lys
3267							
3269	Glu	Arg	Arg	Ala	Met	Lys	Arg
3270							
3272	Asn	Ala	Leu	Val	Ala	Thr	Ala
3273	465						
3275	Met	Gln	Asp	Gly	Thr	Pro	Trp
3276							
3278	Gly	Met	Ile	Gln	Val	Phe	Leu
3279							
3281	Asn	Asn	Glu	Leu	Pro	Arg	Leu
3282							
3284	Gly	Phe	Asp	His	His	Lys	Lys
3285							
3287	Val	Ser	Gly	Val	Leu	Ser	Asn
3288	545						
3290	Asp	His	Tyr	Ile	Asn	Asn	Ser
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3293	Met	Met	Asp	Pro	Gln	Ser	Gly
3294							
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3297							
3299	Val	Val	Phe	Phe	Asp	Ile	Asn
3300							
3302	Pro	Ile	Tyr	Val	Gly	Thr	Gly
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3305	Gly	Phe	Asp	Ala	Pro	Lys	Lys
3306							

## RAW SEQUENCE LISTING

DATE: 07/03/2002

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TIME: 12:31:46

Input Set : A:\BB-1170 USPCT Substitute Seq List.txt

Output Set: N:\CRF3\07032002\I720383A.raw

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3309				660					665					670		
3311	Lys	Ala	Lys	Thr	Val	Ala	Ala	Asp	Lys	Lys	Lys	Lys	Asn	Arg	Glu	Ala
3312				675				680					685			
3314	Ser	Lys	Gln	Ile	His	Ala	Leu	Glu	Asn	Ile	Glu	Glu	Gly	Arg	Gly	His
3315		690					695					700				
3317	Lys	Val	Leu	Asn	Val	Glu	Gln	Ser	Thr	Glu	Ala	Met	Gln	Met	Lys	Leu
3318	705					710				715						720
3320	Gln	Lys	Lys	Tyr	Gly	Gln	Ser	Pro	Val	Phe	Val	Ala	Ser	Ala	Arg	Leu
3321					725					730					735	
3323	Glu	Asn	Gly	Gly	Met	Ala	Arg	Asn	Ala	Ser	Pro	Ala	Cys	Leu	Leu	Lys
3324				740					745					750		
3326	Glu	Ala	Ile	Gln	Val	Ile	Ser	Arg	Gly	Tyr	Glu	Asp	Lys	Thr	Glu	Trp
3327				755				760					765			
3329	Gly	Lys	Glu	Ile	Gly	Trp	Ile	Tyr	Gly	Ser	Val	Thr	Glu	Asp	Ile	Leu
3330		770					775					780				
3332	Thr	Gly	Ser	Lys	Met	His	Ser	His	Gly	Trp	Arg	His	Val	Tyr	Cys	Thr
3333	785					790					795					800
3335	Pro	Lys	Leu	Ala	Ala	Phe	Lys	Gly	Ser	Ala	Pro	Ile	Asn	Leu	Ser	Asp
3336					805					810					815	
3338	Arg	Leu	His	Gln	Val	Leu	Arg	Trp	Ala	Leu	Gly	Ser	Val	Glu	Ile	Phe
3339				820					825					830		
3341	Leu	Ser	Arg	His	Cys	Pro	Ile	Trp	Tyr	Gly	Tyr	Gly	Gly	Gly	Leu	Lys
3342			835					840					845			
3344	Trp	Leu	Glu	Arg	Leu	Ser	Tyr	Ile	Asn	Ser	Val	Val	Tyr	Pro	Trp	Thr
3345		850					855					860				
3347	Ser	Leu	Pro	Leu	Ile	Val	Tyr	Cys	Ser	Leu	Pro	Ala	Ile	Cys	Leu	Leu
3348	865					870					875					880
3350	Thr	Gly	Lys	Phe	Ile	Val	Pro	Glu	Ile	Ser	Asn	Tyr	Ala	Ser	Ile	Leu
3351					885					890					895	
3353	Phe	Met	Ala	Leu	Phe	Ser	Ser	Ile	Ala	Ile	Thr	Gly	Ile	Leu	Glu	Met
3354			900						905					910		
3356	Gln	Trp	Gly	Lys	Val	Gly	Ile	Asp	Asp	Trp	Trp	Arg	Asn	Glu	Gln	Phe
3357			915					920					925			
3359	Trp	Val	Ile	Gly	Gly	Val	Ser	Ala	His	Leu	Phe	Ala	Leu	Phe	Gln	Gly
3360		930					935					940				
3362	Leu	Leu	Lys	Val	Leu	Ala	Gly	Val	Asp	Thr	Asn	Phe	Thr	Val	Thr	Ser
3363	945					950					955					960
3365	Lys	Ala	Ala	Asp	Asp	Gly	Glu	Phe	Ser	Asp	Leu	Tyr	Leu	Phe	Lys	Trp
3366					965					970					975	
3368	Thr	Ser	Leu	Leu	Ile	Pro	Pro	Met	Thr	Leu	Leu	Ile	Ile	Asn	Val	Ile
3369				980						985					990	
3371	Gly	Val	Ile	Val	Gly	Val	Ser	Asp	Ala	Ile	Ser	Asn	Gly	Tyr	Asp	Ser
3372			995					1000					1005			
3374	Trp	Gly	Pro	Leu	Phe	Gly	Arg	Leu	Phe	Phe	Ala	Leu	Trp	Val	Ile	Ile
3375		1010					1015					1020				
3377	His	Leu	Tyr	Pro	Phe	Leu	Lys	Gly	Leu	Leu	Gly	Lys	Gln	Asp	Arg	Met
3378	1025					1030					1035					1040
3380	Pro	Thr	Ile	Ile	Val	Val	Trp	Ser	Ile	Leu	Leu	Ala	Ser	Ile	Leu	Thr

## RAW SEQUENCE LISTING

DATE: 07/03/2002

PATENT APPLICATION: US/09/720,383A

TIME: 12:31:46

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Output Set: N:\CRF3\07032002\I720383A.raw

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3384				1060					1065						1070	
3386	Leu	Glu	Ile	Cys	Gly	Leu	Asp	Cys	Leu							
3387				1075					1080							

--&gt; 3389 (1) - delete

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/720,383A

DATE: 07/03/2002

TIME: 12:31:47

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:9 M:270 C: Current Application Number differs, Replaced Application Number  
 :10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
 :13 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD  
 :1284 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:14  
 :1284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:192  
 :1835 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:19  
 :1835 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0  
 :1835 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:3  
 :1839 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:19  
 :1839 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:237  
 :1891 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:20  
 :1891 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:80  
 :3389 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:29